

# INDIA RUBBER WORLD

BILL BROTHERS PUBLISHING CORP.  
420 Lexington Avenue, New York, N. Y.

Volumes 101-102

October, 1939, to September, 1940

	PAGES		PAGES	
<b>A</b>				
Abrasion Resistance of Carbon Black in Tread Stocks. Effect of Particle Size on Processing Properties and... <i>G. L. Roberts</i> F	39	AMERICAN CHEMICAL SOCIETY		BOOK REVIEWS
Abroad Fifty Years Ago, The Rubber Industry... <i>L. Thakar</i> O	67	SECTIONS		"Chemical Engineering Catalog," Twenty-fourth Annual Edition.....N 76
ACCELERATORS		Chicago.....D 60, Au 60	60	"Chemicals of Commerce"..... <i>Foster D. and Cornelius T. Snell</i> Ja 66
Butyl Eight.....N 50		Connecticut, Western.....Jl 61	61	"Commodities in Industry".....Jl 66
Latac—Active Latex.....Ap 88		Detroit.....Ja 70	70	"Federal Regulatory Action and Control," <i>Frederick F. Blachly and Miriam E. Oatman</i> Je 74
"Thiurad".....F 75		Jersey, North.....Jl 61	61	"Felber's Tavern"..... <i>Mark L. Felber</i> F 71
Accident Rates, 1939, in the Rubber Industry.....S 44		New York.....D 60, Jl 61	61	"Foreign Commerce and Navigation of the United States for the Calendar Year 1938".....Je 74
Action of Latex on Aluminum.....D 52		AMERICAN SOCIETY FOR TESTING MATERIALS		"Handbook of Chemistry," Third Edition, <i>Norbert A. Lange</i> O 101
ADHESIVES		Cadwell Speaks before; Committee D-11		"Mathematical Tables and Formulas," Second Edition..... <i>Compiled by R. S. Burlington</i> S 70
Casco—Latex-Casein.....Ma 44		Meets.....Ap 63	63	"Hydrocarbon Chemistry".....Je 74
Latex, Tackifiers for—Vistac.....Ap 88		Meeting, Annual.....Je 59, Au 51	51	"Industrial Solvents"..... <i>Ibert Mellan</i> O 101
Ty-Ply.....N 53		Standards, Approves.....N 54	54	"Manual for Executives and Foremen"..... <i>E. H. Schell and F. F. Gilmore</i> My 65
Africa, Rubber Industry in...Ja 66, F 69, Ma 78, My 58, Je 70, S 78		Symposium.....F 64	64	"Merle Index, The," Fifth Edition, 1940 My 65
Agreement, I. R. R.—1939 to 1943, Potential Crude Rubber Exports under the...Ja 44		of Mechanical Engineers.....N 50	50	"Physical Constants of Hydrocarbons," Volume II..... <i>Gustav Egleff</i> Je 74
to Permit U. S. Reserve of Rubber...Au 42		Rubber Research Committee.....Au 58	58	"Plastics in Engineering"..... <i>J. Delmonte</i> II 74
Government to Buy Added 180,000 Tons of Rubber in 1941.....S 49		Safety Code for Elevators, Dumbwaiters, and Escalators.....Jl 58	58	"Practical Latex Work"..... <i>H. J. Stern</i> II 66
Aid in Oil-Well Shooting, Rubber—An F. R. Cozzens Ma 49		Symposium on Rubber and Plastics.....Ja 58	58	"Printing Inks"..... <i>Carleton Ellis</i> II 66
Airplane Armor Plate Made of Rubber and Steel.....Jl 48		Ameripol—A New Butadiene Synthetic Rubber.....II 47	47	"Proceedings of the Forty-Second Annual Meeting," Volume 39.....A. S. T. M. Je 74
Aluminum, Action of Latex on.....D 52		Ample Rubber and Replacement Materials.....O 99	99	"Roman Effect and Its Chemical Applications, The"..... <i>James H. Hibben</i> O 101
Ameribex Type B Factice.....Au 35		Analysis Chart, Pressure, for a Hydraulic Press.....P. B. Hunt S 48	48	"Rubber and Railways," Second Edition..... <i>Colin Macbeth</i> Ma 64
AMERICA (see also United States)		Critical, of the T-50 Test for State of Vulcanization, A..... <i>George R. Vila</i> N 34	34	"Latex".....H. P. and W. H. Stevens My 65
South, Imports of Rubber Products.....Ja 42		ANDREWS, DON E.		"Red Book," 1939 Edition.....O 101
Rubber Industry in...D 70, Ja 46, 61, My 58, 64, Jl 62		Packaging of Smoked Sheets for Plantations Shipment.....Ma 33	33	"Standard Chemical and Technical Dictionary"..... <i>H. Bennett</i> O 101
U. S. Firms to Build in.....Ap 66		Applications, Cement-Latex Mixtures: Their Composition and... <i>H. J. Stern</i> My 37	37	"Step Out and Sell!".....Wm. E. Holler D 73
American Association for the Advancement of Science.....Au 51		Aqueous Medium, Dispersion of Pigments in, F. K. Daniel D. 50, Ja 33	33	"Sunex Clay"..... <i>John H. Shinkle</i> S 70
AMERICAN CHEMICAL DIVISION OF RUBBER CHEMISTRY		Argentina, Rubber Trade in...D 70, Ja 61, Ap 66	66	"Textile Testing"..... <i>Ernest Child</i> My 65
By-Laws Enacted by.....D 55		Armor Plate, Airplane, Made of Rubber and Steel.....Jl 48	48	"Tools of the Chemist"..... <i>Vibration of Rail and Road Vehicles".....B. S. Cain</i> S 70
COMMITTEE, CRUDE RUBBER		Army Gas Masks, Rubber for M. E. Barker My 33	33	"Wage and Hour Manual, 1940 Edition".....S 70
Progress in Standardization by the...F 45		Asphalt Minus Pigment Coloration.....Ja 42	42	Brake Lining Manufacturers' Association Inc., The.....N 55
Report of the.....Je 53		Association of American Battery Manufacturers, Inc., The.....Au 60	60	Brazil, Rubber Trade in.....My 58, 64, Jl 62
Tentative Procedure for Testing the Variability of Normal and Concentrated Latex.....Ja 47, F 51		Australia, Rubber Industry in.....Ma 63, Je 66	66	Brous, S. L.
Committees for 1940.....Ja 51		AVIATION		Koro seal, a Raw Material for the Rubber Industry.....D 53
GROUP ACTIVITIES		Airplane Armor Plate Made of Rubber and Steel.....II 48	48	Brown, Marcus L., Jr., <i>Portrait and Sketch</i> A 61
Akron...N 50, D 59, F 57, My 52, Je 59, Jl 54, Au 53		News.....S 59	59	Bud-Grafting Procedure.....Ma 42
Boston...D 59, Ja 51, F 57, Ma 51, My 51, Jl 54, Au 52		B		
Buffalo.....Ap 63, Je 59, Jl 54, Au 53		Bale Rubber and Uncured Friction, Wet Cutting of.....F 53	53	Builders of Royle Extruders Celebrate Eighty-fifth Birthday.....Ap 54
Chicago...N 50, D 59, Ja 51, F 57, Ma 51, Ap 63, Jl 53		Banbury Parts, Welding Service for the Renewal of.....Ap 59	59	Bulgaria, Rubber Trade in.....Ma 62
Detroit.....F 57, Ma 51, Je 59		BARKER, M. E.		Burke, G. M.
Los Angeles—O 110, N 50, D 59, Ja 51, Ma 51, Ap 63, My 52, Je 59, Jl 54, Au 52		Rubber for Army Gas Masks.....My 33	33	Preventing Fires in Rubber Processes.....My 41
New York...O 110, N 50, D 59, Ja 51, Ma 51, Ap 63, Je 59, Jl 54		Base, Wide, Tractor Tires, R. P. Gaylord My 46	46	Bushing, Vibration Dampener, for Hand Grinders.....Paul L. Kuznick Ap 55
Rules for 1940 Prize Essay Contest.....Ap 58		Belgian Congo, Rubber Trade in.....Ja 66	66	Butadiene Synthetic Rubber, A New—Ameribol.....Jl 47
History of the...E. V. Osberg O 83		Belgium, Rubber Trade in.....N 61	61	Butyl Eight—Accelerator for Self-Curing Goods.....N 50
Lecture, Charles Goodyear.....F 57, Jl 53		Belting, Conveyor, Protective Coating for, My 59	59	Rubber—A New Standard Oil Synthetic, Jl 44
MEETINGS		Bibliography, Rubber...O 102, N 63, D 75, Ja 68, F 72, Ma 64, Ap 76, My 66, Je 75, Jl 67, Au 71, S 73	73	By-Laws Enacted by Rubber Division....D 55
Fall, Rubber Chemists Celebrate Centenary of Vulcanization at...O 89		Biological Models and Injected Specimens, Latex Improves.....J. Rubinger Je 50	50	C
September 12-13, 1940, Je 59, Jl 53, Au 52, S 51		Birthday, Builders of Royle Extruders Celebrate Eighty-fifth.....Ap 54	54	Calcium Pigment, Fine-Particle—Kalvan Ma 51
Abstracts of Papers.....S 51		Black-Out—A Surface Protective.....Au 53	53	Silicate, Precipitated.....Jl 71, Au 49
Spring.....D 59, Ap 61, My 51		Bonding Rubber to a Ferrous Metal.....My 36	36	Calendar of Coming Events.....N 53, D 64, Ja 54, F 60, Ma 78, Ap 66, My 55, Je 63, Jl 57, Au 57, S 56
Abstracts of Papers.....Ap 61		BOOK REVIEWS		Canada, Rubber Trade in.....Ja 63, F 66, Ma 59, Ap 70, My 61, Je 67, Jl 61, Au 61, S 62
Notes.....D 59		"A.S.T.M. Standards—1939, Part III," American Society for Testing Materials, My 65	65	
Elects New Officers.....Ja 51		"on American Products".....A. S. T. M. F 71	71	
Perkin Medal Award.....F 57		"Annual Cotton Handbook".....F 71	71	
Sections		"Report on the Progress of Rubber Technology".....Volume III.....Jl 66	66	
Akron.....Jl 61				

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept; O=Oct.; N=Nov.; D=Dec.

# BARBER Genasco (M.R.) HYDROCARBON

(Solid or Granulated)

• A hard, stable compound — produced under the exacting supervision of an experienced and up-to-date laboratory. • Genasco hydrocarbon has proved itself to be always of uniform quality. Shipped to all parts of the world in metal drums. Stocks carried at Barber, N. J., and Madison, Ill.

## BARBER ASPHALT CORPORATION

New York

Madison, Ill.

Chicago

### QUALITY

#### BELTING

Transmission—Conveyor—Elevator

#### HOSE

for every purpose  
Water—Fire—Air—Steam

### INTEGRITY

59 YEARS WITHOUT REORGANIZATION



Mechanical Specialties of Every Description

### HOME RUBBER COMPANY

Factory &amp; Main Office

TRENTON, N. J.

LONDON: 107 Clifton St., Finsbury

CHICAGO: 168 North Clinton St.

NEW YORK: 80-82 Reade St.

### SERVICE

#### PACKING

Sheet & Rod Packings  
for every condition

# LIQUID LATEX

### NORMAL and CONCENTRATED

Agents in U. S. A. for Dunlop Concentrated 60%  
Latex, Product of Dunlop Malayan Estates, Ltd.

### CHARLES T. WILSON CO., INC.

99 WALL STREET

NEW YORK, N. Y.

#### SALES REPRESENTATIVES

BOSTON, Ernest Jacoby &amp; Co., 79 Milk St.

AKRON, Charles T. Wilson Co., Inc., 803 United Bldg.

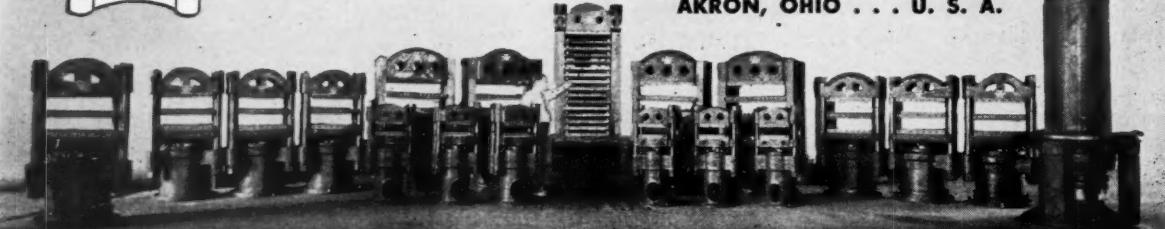
PACIFIC COAST, J. B. Ruth &amp; Co., 124 South Central Avenue, Los Angeles, Calif.



### THE WORLD'S FINEST RUBBER MACHINERY . . .

### The ADAMSON MACHINE Co.

AKRON, OHIO . . . U. S. A.



Tested and ready for shipment—a group of 18 Presses and an Accumulator leaving the Adamson Plant, consigned to 3 nationally known molded-goods manufacturers.

## PAGES

Canadian Chemical Association, Rubber Section.....	N 50, D 60, F 57, Ap 88, Je 67
Carbon Black, Evaluation of, by Rate of Cure and Extrusion.....	C. R. Johnson N 39
in Tread Stocks, Effect of Particle Size on Processing Properties and Abrasion Resistance.....	G. L. Roberts F 39
Care in Storing Crude Rubber.....	Ja 39
Casco—Latex-Casein Adhesives.....	Ma 44
Casein, Latex, Adhesives—Casco.....	Ma 44
Casting Process, Metal, Utilizes Rubber Molds.....	Ma 49
Cement-Latex Mixtures: Their Composition and Applications.....	H. J. Stern My 37
Centenary of Vulcanization, Rubber Chemists Celebrate at Fall Meeting.....	O 89
Ceylon, Rubber Trade in.....	N 62, D 72, Ma 74, Je 88, Au 67
Characteristics and Utility of Neoprene Latices.....	Benton Dales Ap 43
Chart, Pressure Analysis, for a Hydraulic Press.....	P. B. Hunt S 48
Chemical Patents.....	O 112, N 64, D 76, Ja 69, F 73, Ma 65, Ap 77, My 67, Je 76, JI 68, Au 73, S 74
Chemicals, Rubber, Production and Sales of, for 1939.....	JI 48
Chemistry.....	N 50, D 59, Ja 51, F 57, Ma 51, Ap 61, My 51, Je 59, JI 53, Au 51, S 51
Chile, Rubber Trade in.....	Ap 66
Circo Light Process Oil—Softener for Neoprene.....	Au 51
Classification of Polymers A Suggested System for.....	H. Mark JI 49
CLEAVER, O. P.	
Fluorescent Lighting for the.....	S 33
Coating, Protective, for Conveyer Belting, My Collyer, John Lyon.....	Portrait and Sketch O 100
Coloration, Pigment, Asphalt Minus.....	Ja 42
Columbia to Release Goodyear Film.....	O 96
COMMODITY EXCHANGE, INC.	
Crude Rubber Market.....	O 103, N 67, D 79, Ja 71, F 75, Ma 67, Ap 79, My 71, Je 79, JI 71, Au 77, S 77
Electrons.....	F 62
Composition and Applications, Their, Cement-Latex Mixtures.....	H. J. Stern My 37
Compositions, Properties, and Uses, Synthetic Rubbers: A Review of Their.....	Lawrence A. Wood JI 33
Composite Elasticity of Rubber.....	H. Mark Je 41, Au 45
Compounding in the Nineteenth Century Webster Norris O 60	
Ingredients Market.....	O 107, N 71, D 83, Ja 75, F 79, Ma 71, Ap 83, My 75, Je 83, JI 75, Au 81, S 81
Concentrated Latex, Normal and, Tentative Procedures for Testing the Variability of.....	Ja 47, F 51
Connors, J. H.....	Portrait F 65
Consolidated, Farm Equipment Tire Sizes, A Control for Inner Tubes, T-50 Test as a.....	William R. Dunlap, Jr. N 47
Conveyer System, Tread-Cutting, Electrical Operation of.....	C. W. Drake D 57
Conveyers for Extruding Operations.....	Ma 49
Cork Soing, Rubber and.....	Au 49
Corrosion-Resistant Finish—Synglas.....	F 64
Cosol High Boiling Solvents.....	F 62
Cotton Market and Fabrics.....	O 110, N 74, D 86, Ja 78, F 82, Ma 74, Ap 86, My 78, Je 86, JI 78, Au 84, S 84
Coverings, Floor, Latex.....	D 54
COZZENS, F. R.	
Rubber—an Aid in Oil-Well Shooting, Ma Creaming of Hevea Latex, Distribution of Flock Size in the.....	E. M. McColm Ja 49
Crepe Sole Rubber Imports Dutiable, My Critical Analysis of the T-50 Test for State of Vulcanization, A.....	George R. Vila N 34
CRUDE RUBBER	
Exports, Potential, under the I. R. R. J. Agreement—1939 to 1943.....	Ja 44
Market.....	O 103, N 67, D 79, Ja 71, F 75, Ma 67, Ap 79, My 71, Je 79, JI 71, Au 77, S 77
Storing, Care in.....	D 37
Supplies, United States.....	F 49
Cryptone ZS-800—New Zinc Sulphide Developed.....	Je 45
Cuba, Rubber Trade in.....	F 88
Cure and Extrusion, Rate of Evaluation of Carbon Black by.....	C. R. Johnson N 39
Cutting, Tread, Conveyer System, Electrical Operation of.....	C. W. Drake D 57
Wet, of Bale Rubber and Uncured Friction.....	F 53
Cyrene Resins, Modified Polystyrene.....	Ma 55

## D

DALES, BENTON	
Characteristics and Utility of Neoprene Latices.....	Ap 43
Damper Bushing, Vibration, for Hand Grinders.....	Paul L. Kuznick Ap 55

## PAGES

DANIEL, F. K.	
Dispersion of Pigments in Aqueous Medium.....	D 50, Ja 33
De Ghetto, A.....	Portrait N 53
Denmark, Rubber Trade in.....	N 61, F 69, My 63, Je 88
Design, Woodworking Machine, Rubber in F	53
Development of Basic Rubber Processing Machinery, The.....	S. C. Stillwagon O 50
Developments, Vulcanization in Tires.....	Ian Patterson O 81
Device for Packaging with Pliofilm.....	My 49
Dinsmore, R. P.....	Portrait D 67, S 59
Discovery, Goodyear's, Vulcanization A Century after.....	A. R. Kemp O 63
Dispersing Agent for Aqueous Systems—“Hornkem”.....	Ja 58
Dispersion of Pigments in Aqueous Medium.....	F. K. Daniel Ja 33
Dispersion of Pigments in Aqueous Medium.....	F. K. Daniel O 33
Distributors' Tire Stocks in the United States, October 1, 1939.....	Ma 46
January 1, 1940.....	Ma 45
April 1, 1940.....	Je 46
July 1, 1940.....	S 45
Distribution of Flock Size in the Creaming of Hevea Latex.....	E. M. McColm Ja 38
Dividends Declared.....	O 116, N 59, D 78, Ja 62, F 67, Ma 76, Ap 72, My 84, Je 90, JI 80, Au 86, S 90
DRAKE, C. W.	
Electrical Operation of Tread-Cutting Conveyer System.....	D 57
Drogin, Isaac, Dr.....	Portrait Ja 56
Drum Protectors, Rubber, for A. R. P. My 45	
T-50 Test as a Control for Inner Tubes, N 47	
Durable, Crepe Sole Rubber Imports, My 46	
E	
East (U. S. A.), Rubber Trade in.....	O 98, N 53, D 64, Ja 54, F 60, Ma 54, Ap 67, My 55, Je 63, JI 57, Au 57, S 56
EDITORIALS	
American Patent Sesquicentennial.....	My 50
Youth and Industry.....	Je 58
Christmas Greetings.....	D 58
Crude Rubber Situation, The.....	N 49
Stocks.....	My 50
and the Export Quota.....	Je 58
Distribution and Growth of Industrial Research.....	Ap 60
Early Rubber Pioneers.....	O 47
1889-1939.....	O 45
Employed Labor Holds Favored Position, Ap 60	
Fifty Years of Continuous Service.....	O 46
Machines and Men.....	F 56
Manufacturer's Dilemma, A.....	F 56
“Modern Pioneers” and the American Patent System.....	Ja 50
New Package for Crude Rubber, A.....	Ma 50
Our Crude Rubber Reserve.....	Au 50
Potentiality of Plastics to the Rubber Manufacturer.....	Ma 50
Rest Periods in Industry.....	D 58
Rubber, a Strategic Material.....	Jl 52
Stocks Increasing.....	S 50
United States Export Trade in Rubber Goods.....	Ja 53
Scrap Rubber and Reclaim Are National Assets.....	S 50
War's Effect on Industry.....	N 49
Worn Tires a Safety Hazard.....	D 58
Effect of Particle Size on Processing Properties and Abrasion Resistance of Carbon Black in Tread Stocks.....	G. L. Roberts F 39
the War on Germany's Rubber Goods Markets.....	L. Thakar My 44
Efficiency of California Farms, Rubber Promotes.....	F 54
Eire, Rubber Trade in.....	N 61
“Ekk” Process for Making Molds.....	O 98
Elastic Thread, Testing by the Incline-Plane Machine.....	Daniel Rhee Ap 46
Elasticity, Composite, of Rubber.....	46
Electrical Operation of Tread-Cutting Conveyer System.....	C. W. Drake D 57
Emolover, The Viewpoint of an, toward Industrial Hygiene.....	Andrew Fletcher F 43
Equipment, Farm, Tire Sizes Consolidated, S 46	
EUROPE	
Rubber Industry Abroad Fifty Years Ago, The.....	L. Thakar O 67
in.....	N 60, D 71, Ja 64, F 68, Ma 61, Ap 73, My 62, Je 71, JI 63, Au 63, S 64
Evaluation of Carbon Black by Rate of Cure and Extrusion.....	C. R. Johnson N 39
EXPOSITIONS	
Automobile Show, New York.....	N 54
Chemical Industries.....	D 60, Ja 57
National.....	Au 60
“Little World's Fair of Rubber”.....	Jl 60
Motor Boat Show.....	F 61
NAITD Trade Show.....	N 55
Notion and Novelty.....	Ma 55

EXPOSITIONS	
Premium.....	N 54
Rubber, at A. C. S. Fall Meeting Celebrating Centenary of Vulcanization.....	O 89
Toy Fair, 1940.....	My 56
World's Fair in New York, N 56, Ap 6, Je 63, Au 59, S 40	
Extruders, Royle, Builders of, Celebrate Eighty-fifth Birthday.....	Ap 54
Extruding Operations, Conveyers for, Ma 46	
Extrusion, Evaluation of Carbon Black by Rate of Cure and.....	C. R. Johnson N 39

## F

Factice, Amberex Type B.....	Au 35
Fair, 1940, Rubber at the.....	S 40
FAIR EAST	
Potential Crude Rubber Exports under the I. R. R. Agreement—1939 to 1943, Ja 44	
Rubber Industry Abroad Fifty Years Ago, The in.....	L. Thakar O 67
in.....	N 61, D 72, Ja 65, F 69, Ma 62, Ap 74, My 73, Je 73, JI 65, Au 66, S 68
Farm Equipment Tire Sizes Consolidated, S 46	
Farms, Rubber Promotes Efficiency in California.....	F 54
Fifty Years Ago, The Rubber Industry Abroad.....	L. Thakar O 67
Film, Goodyear, Columbia to Release, O 96	
Financial, O 116, N 58, D 69, Ja 62, F 66, Ma 76, Ap 72, My 70, Je 68, Aug 86, S 86	
Fine-Particle Calcium Pigment—Kalvan, Ma 51	
Finish, Corrosion-Resistant—Synglas.....	F 64
Flexible, for Rubber.....	D 60
Finland, Rubber Trade in.....	J 72, Ja 65, Ap 74, Au 65
Fires in Rubber Processes, Preventing, G. M. Burke My 41	
Firestone, Harvey S. Jr.....	Portrait S 58
Leonard K.....	Portrait Ja 59, S 58
Roger A.....	Portrait Ja 59, S 58
Russell A.....	Portrait S 58
FISHER, HARRY L.	
Vulcanization of Rubber.....	Ma 38, Ap 56
FLETCHER, ANDREW	
Viewpoint of an Employer toward Industrial Hygiene, The.....	F 43
Flexing Tests, Rubber, The Standardization of.....	W. L. Stevens Au 36
Flock Size Distribution of, in the Creaming of Hevea Latex.....	E. M. McColm Ja 38
Floor Coverings, Latex.....	D 54
Florman, Nils.....	Portrait N 53
Fluorescent Lighting for the Rubber Industry.....	O. P. Cleaver S 33
Foreign Trade Information.....	O 116, N 76, D 90, Ja 80, F 88, Ma 78, Ap 90, My 84, J 90, JI 82, S 77
Forming, Metal, with Rubber for Pressing and	
Paul Grodzinski Ma 47	
FOUSE, W. E.....	Portrait Ja 59
Fraine, S. A.....	Portrait N 53
FRANCE	
Rubber Industry Abroad Fifty Years Ago, The in.....	L. Thakar O 67
Trade in.....	F 69, Ma 62, My 62, Je 72
Friction, Uncured, Wet Cutting of Bale Rubber and.....	F 53
From Our Early Columns.....	N 59, D 70, Ja 63, F 67, Ma 60, Ap 72, My 61, Je 70, JI 62, Au 62, S 63

## G

Gas Masks, Army, Rubber for	
M. E. Barker My 33	
GAYLORD, R. P.	
Wide Base Tractor Tires.....	My 46
German Patents Relating to Synthetic Rubber-like Materials.....	Law Voge Ap 48, My 47, JI 45, Au 43, S 41
GERMANY	
Rubber Goods Markets, Effect of the War on	L. Thakar My 44
Industry Abroad Fifty Years Ago, The	L. Thakar O 67
Trade in.....	N 60, D 71, Ja 64, F 68, Ma 61, Ap 73, My 62, Je 71, JI 64, Au 64, S 64
Glass Windows, Latex Protects.....	N 46
Goodrich, David M.....	Portrait Au 47
Goodyear, Charles.....	Portrait O 48
Persistent Researcher, H. E. Simmons O 48	
Film, Columbia to Release.....	O 49
Relic, Oldest.....	Ma 46
Goodyear's Discovery, Vulcanization—A Century after.....	A. R. Kemp O 63
Government to Buy Added 180,000 Tons of Rubber in 1941.....	S 49
GREAT BRITAIN	
Rubber Industry Abroad Fifty Years Ago, The in.....	L. Thakar O 67
Trade in.....	N 60, D 71, Ja 64, F 68, Ma 61, Ap 74, My 62, Je 71, JI 63, Au 63, S 65

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; JI=July; Au=August; S=Sept; O=Oct.; N=Nov.; D=Dec.

PAGES	PAGES
Greece, Rubber Trade in.....	F 69
Gregory, H. W., <i>Portrait</i> F 66	
Grinders, Hand, Vibration Dampener, Bushing for.....	Paul L. Kuznick Ap 55
GRODZINSKI, PAUL	
Rubber for Pressing and Forming of Metals.....	Ma 47
Guatemala's Big Chicle Crop.....	Ja 46
Guibal, M., <i>Portrait</i> O 70	
<b>H</b>	
Hancock, Thomas.....	<i>Portrait</i> O 69
Hand Grinders, Vibration Dampener Bushing for.....	Paul L. Kuznick Ap 55
HAUSER, E. A., AND I. N. SMITH	
Structural Studies of the Vulcanization of Rubber under Stretch.....	N 31
Heat, Rubber Hydrochloride Stretched under Tensolite.....	H. D. Minich Ap 51
Hevea Latex, Distribution of Flock Size in the Creaming of.....	E. M. McColm Ja 38
History of the Division of Rubber Chemistry of the American Chemical Society	
E. V. Osberg O 83	
Holland (See <i>Netherlands</i> )	
"Hornkem"—Dispersing Agent for Aqueous Systems	
Dispersion of Pigments in Aqueous Medium.....	Ja 58
Hungary, Rubber Trade in.....	F. K. Daniel Ja 33
HUNT, P. B.	
Pressure Analysis Chart for a Hydraulic Press.....	S 48
Hydraulic Press, Pressure Analysis Chart for a.....	P. B. Hunt S 48
Hydrochloride, Rubber, Stretched under Heat Tensolite.....	H. D. Minich Ap 51
Hygiene, Industrial, The Viewpoint of an Employer toward.....	Andrew Fletcher F 43
<b>I</b>	
I. R. R. Agreement—1939 to 1943, Potential Crude Rubber Exports under the.....	Ja 44
Imports, Crepe Sole Rubber, Dutiable.....	My 46
of Rubber Products, South American.....	Ja 42
Rubber Latex, More Than Doubled.....	My 58
Incline-Plane Machine, Testing Elastic Thread by the.....	Daniel Rhee Ap 46
India, Rubber Trade in.....	F 70, My 63, Au 68
WORLD	
Association, A Half Century of, of Which, Is very Proud.....	O 97
Statement of.....	O 116
Indo-China, Rubber Trade in.....	N 61, Ma 63, Je 88
<b>INDUSTRY</b>	
<b>RUBBER</b>	
A broad Fifty Years Ago, L. Thakar O 67	
Accident Rates, 1939, in the.....	S 44
Fluorescent Lighting for the.....	Cleaver S 33
Koroseal, a Raw Material for the.....	S. L. Brous D 53
Solvents in the.....	Ralph K. Strong and Kenneth Tator D 47, Ja 45
Viewpoint of an Employer toward Industrial Hygiene, The.....	Andrew Fletcher F 43
Injected Specimens, Latex Improves Biological Models and.....	J. Rubinger Je 50
Inner Tubes, T-50 Test as a Control for	
William B. Dunlap, Jr. N 47	
Tax on Tires and, Raised.....	Au 57, 61
Inquiries, Rubber Trade.....	O 110, N 66, D 79, Ja 80, F 75, Ma 67, Ap 90, My 84, Je 90, Au 84, S 90
Iodine Antiseptic—"Iodine-Davis".....	Ma 82
ITALY	
Rubber Industry Abroad Fifty Years ago, The.....	L. Thakar O 67
Trade in.....	N 61, D 72, Ja 65, JI 64, S 68
<b>J</b>	
<b>JAPAN</b>	
Rubber Industry Abroad Fifty Years Ago, The.....	L. Thakar O 67
Trade in.....	Ja 65, Ma 74, Je 70, S 68
JOHNSON, C. R.	
Evaluation of Carbon Black by Rate of Cure and Extrusion.....	N 39
<b>K</b>	
KALVAN—Fine-Particle Calcium Pigment.....	Ma 51
Kelsanite, Latex Molds from.....	F 48
KEMP, A. R.	
Vulcanization—A Century after Goodyear's Discovery.....	O 63
Kenya, Rubber Trade in.....	F 69
KIES, C. G., <i>Portrait</i> Ja 60	
KLESBATTEL, C. A.	
Perburan and Its Use.....	Au 33, S 37
Koroseal, a Raw Material for the Rubber Industry.....	S. L. Brous D 53
KUZNICK, PAUL L.	
Vibration Dampener Bushing for Hand Grinders.....	Ap 55
<b>L</b>	
Latac—Active Latex Accelerator.....	Ap 88
Latex	
Accelerator, Active—Latac.....	Ap 88
Adhesives, Casein.....	Ma 44
Tackifiers for Vistac.....	Ap 88
Aluminum, Action of, on.....	D 52
Arrives in Baltimore, Goodyear.....	Ja 37
Cement, Mixtures; Their Composition and Applications.....	H. J. Stern My 37
Creaming of Hevea, Distribution of Flock Size in the.....	E. M. McColm Ja 38
Floor Coverings.....	D 58
Imports More Than Doubled.....	My 58
Improves Biological Models and Injected Specimens.....	J. Rubinger Je 50
Molds from Kelsanite.....	F 48
Neoprene Latex, Characteristics and Utility of.....	Benton Dales Ap 43
Protects Glass Windows.....	N 46
Report of the Crude Rubber Committee, Division of Rubber Chemistry, A. C. S. Je 53	
Testing the Variability of Normal and Concentrated, Tentative Procedures for, Ja 47, F 57	
Latvia, Rubber Trade in.....	N 61, Je 70
Legal.....	N 56, Ja 61, Ap 70
Letters from Our Readers.....	Ja 70
Liberia, Rubber Trade in.....	Ma 78, My 58
Linforth, J. M., <i>Portrait</i> F 57	
Lightning, Fluorescent, for the Rubber Industry.....	O. P. Cleaver S 33
Lithuania, Rubber Trade in.....	N 61
Low-Temperature Set Test.....	Ma 44
Lubricant, Rubber, Ruglyde.....	D 60
Lung, Rubber-Sealed.....	N 40
<b>M</b>	
Machine Design, Woodworking, Rubber in, F Incline-Plane, Testing Elastic Thread by the.....	Daniel Rhee Ap 46
Machinery Patents.....	O 112, N 64, D 76, Ja 69, F 73, Ma 65, Ap 77, My 67, Je 76, JI 68, Au 73, S 74
Rubber Processing, Basic, The Development of.....	S. C. Stilwaggon O 50
<b>MACHINES AND APPLIANCES, NEW</b>	
Abrasive Wheel Grinds Rubber without Burning.....	Au 55
Aid to Rubber Bale Opening.....	D 61
Airbags, Glycerine Trap for.....	Au 55
Alarm, Smoke, and Densometer.....	Je 61
Bale Opening, Aid to.....	D 61
Ball Mills.....	D 61
Bearings and Rollers, Acid Resisting, D 62	
Circulating Unit, Heating and, for Extruders and Presses.....	Au 54
Cleaning Device.....	Au 55
Clutch, Release, Overload.....	Jl 55
Colorimeter, Photo-Electric.....	Ap 64
Connectors, Self-Supporting, Flexible, for Hydraulic Presses.....	Ma 52
Controller, Redesigned, Features New Supplementary Control.....	Ap 64
Pyrometer, Bristol's New Electronic, S Time Cycle.....	Je 61, Au 55
Count, Yarn Scale, Portable.....	Au 55
Cushion, Latex Foam, Machine for Testing.....	Jl 55
Densometer, Smoke Alarm and.....	Je 61
Detector, Moisture.....	Jl 55
Electrical Resistance, Moisture Determined by.....	Jl 55
Electron-Ray pH Meter.....	Ma 52
Extruders and Presses, Heating and Circulating Unit for.....	Au 54
Fasteners, V-Belt.....	My 53
Flame Hardening Process, New, for Rolls and Mandrels.....	Ja 55
Glycerine Trap for Airbags.....	Au 55
Grinds Rubber without Burning, Abrasive Wheel.....	Au 55
Head, Strainer Features Hydraulic-Locking with Easy Opening.....	N 51
Heater, Electric, for Koroseal Compounds, Je Heating and Circulating Unit for Extruders and Presses.....	Au 61
Insulating Equipment, Wire, for Plastics, Je Joint, Revolving, Two-Inch.....	Ap 60
Joints, Swing, High-Temperature, Mv	
Laboratory Banbury Mixer, Equipped with Four-Speed Motor.....	S 54
Meter, Electron-Ray pH.....	Ma 54
Mill, 54-Inch, Extra-Heavy.....	Au 54
Plastics, Heavy-Duty.....	F 58
Mills, Ball.....	D 61
Mixer, Laboratory Banbury, Equipped with Four-Speed Motor.....	S 54
Moisture Detected by Electrical Resistance, Il	
Mold Plates, Speed Case.....	O 100
Molding Unit, Four-Press Rubber.....	Ma 52
Nuts, Self-Locking.....	Ja 52
Oscillograph, Aminco-Yerzley.....	D 61
Packaging Machine.....	D 62
pH Meter, Electron-Ray.....	Ma 52
<b>MACHINES AND APPLIANCES, NEW</b>	
Press, Electrically Heated.....	My 53
Four, Rubber Molding Unit.....	Ma 52
Hot Plate, Self-Contained.....	Je 50
Streamlined, for Rubber and Plastics, My 53	
Presses, Heating and Circulating Unit for Extruders and.....	Au 54
Hydraulic, Self-Supporting Flexible Connectors for.....	Ma 52
Ring-Type.....	Ja 52
Pressure Vessel, Longest All-Welded, Ma Pyrometer Controller, Bristol's New Electronic.....	S 54
Recorders, Improved.....	My 53
Reducer, Stretch, for Belt Cord.....	N 51
Rollers, Acid Resisting Bearings and.....	D 62
Sanding Machine for White Sidewall Tires.....	Ap 54
Scale, Yarn Count, Portable.....	Au 55
Smoke Alarm and Densometer.....	Je 61
Strainer Features Hydraulic-Locking Head, F with Easy-Opening Head.....	N 51
Stranding Machine, Wire, D 61	
Stretch-Reducer for Belt Cord.....	N 51
Wrap Machine for Plio-film.....	F 58
Switch, Time, Electrical.....	D 62
Test Apparatus, Warmth.....	Ja 61
Tester, Foamed Latex Sponge.....	Jl 52
Testing Latex Foam, Cushion, Machine for, JI Time Cycle Controller.....	Je 61, Au 55
Switch, Electrical.....	D 62
Timer, Automatic, Features Simplicity, Au Interval, Motor-Operated.....	Je 61
New, Promotes Efficient Curing.....	D 62
<b>TIRES</b>	
Building Machine, Semi-Automatic.....	Je 60
Sanding Machine for White Sidewall, Ap 54	
Trap, Glycerine, for Airbags.....	Au 55
Vulcanizer, Giant.....	N 51
Warmth Test Apparatus.....	Je 61
Wheel, Abrasive, Grinds Rubber without Burning.....	Au 55
Wire Insulating Equipment for Plastics, Je Stranding Machine.....	D 61
Yarn Count Scale, Portable.....	Ma 60
Macintosh, Charles, <i>Portrait</i> O	
Malaya, Rubber Trade in.....	N 61, D 72, Ja 65, F 70, Ma 62, Ap 75, My 64, Je 73, JI 64, Au 84, S 84
Mark, H., <i>Portrait and Sketch</i> Jl	
Composite Elasticity of Rubber, Je 41, Au Suggested System for Classification of Polymers, A.....	Jl 49
<b>MATERIALS</b>	
Compounding Ingredients, O 107, N 71, D 83, Ja 75, F 79, Ma 71, Ap 83, My 75, Je 83, JI 75, Au 81, S 81	
Cotton and Fabrics, O 110, N 74, D 86, Ja 78, F 82, Ma 74, Ap 86, My 78, Je 86, JI 78, Au 84, S 84	
Crude Rubber.....	O 103, N 67, D 79, Ja 71, F 75, Ma 67, Ap 79, My 71, Je 79, JI 71, Au 77, S 77
Germany's Rubber Goods, Effect of the War on.....	L. Thakar My 55
Reclaimed Rubber, O 104, N 68, D 86, Ja 72, F 84, Ma 68, Ap 86, My 78, Je 80, JI 72, Au 78, S 88	
Rubber Scrap, O 104, N 68, D 88, Ja 72, F 84, Ma 78, Ap 86, My 78, Je 80, JI 72, Au 78, S 88	
Marking Retreaded Tires, Je 64	
Masks, Army Gas, Rubber for, M. E. Barker My 33	
Materials, Replacement, Ample Rubber and, Appear to Be Available, O 99	
Represented as Synthetic Rubber, Ja 43	
Synthetic Rubber-like German Patents Relating to, Law Voge Ap 48, My 47, Jl 45, Au 43, S 41	
McCOLM, E. M.	
Distribution of Flock Size in the Creaming of Hevea Latex.....	Ja 38
Measurement of the Plasticity of Rubber, The, William M. Widener N 41, Ap 88	
Mechanics, Prices Up.....	N 53
Metal, Bonding Rubber to a Ferrous.....	My 36
Casting Process Utilizes Rubber Molds, Ma 49	
Forming with Rubber.....	My 45
Sprayed "Thiokol" Powder Protects, D 60	
Metals, Rubber for Pressing and Forming of, Paul Grodzinski Ma 47	
Mexico, Rubber Trade in.....	Je 70, Au 77
Midwest, Rubber Trade in, O 100, N 57, D 68, Ja 61, F 64, Ma 58, Ap 70, My 59, Je 66, JI 59, Au 60, S 61	
Minich, H. D., <i>Portrait</i> Ap 51	
Tensolite—Rubber Hydrochloride Stretched under Heat.....	Ap 51
Mixtures, Cement-Latex: Their Composition and Applications, H. J. Stern My 37	

**J**=Jan.; **F**=Feb.; **M**=March; **A**=April; **M**=May; **J**=June; **J**=July; **A**=August; **S**=Sept.; **O**=Oct.; **N**=Nov.; **D**=Dec.

## PAGES

Models, Biological, and Injected Specimens, Latex Improves.....	<i>J. Rubinger</i> Je	50
Nineteenth Century Patent, Relating to Rubber.....	<i>Kimball Hutton Stark</i> O	55
Modified Polystyrene Resins.....	Ma	37
Molds, "Ekko" Process for Making.....	O	98
Latex, from Kelsanite.....	F	48
Protectives for, against Rust—Rust-Ban, D	60	
Rubber, Metal Casting Process Utilizes, Ma	49	
Münch, C. Lawrence.....	<i>Portrait</i> F	63

## N

NATIONAL		
Association of Independent Tire Dealers, N		
Waste Material Dealers, Inc., D	66,	
Ma 55, Ap	67	
Battery Manufacturers Association, Inc.	D 64,	Au 60
SAFETY COUNCIL		
Congress.....	S	61
Elects Officers and Gives Safety Contest		
Awards.....	D	68
1939 Accident Rates in the Rubber Industry.....	S	44
Neoprene Latices, Characteristics and Utility of.....	<i>Benton Dales</i> Ap	43
Present Status of, The.....	Jl	51
SOFTENERS FOR		
Circo Light Process Oil.....	Au	51
Suniso 3A Light Process Oil.....	Au	51
Type GN.....	Je	63
Netherland India, Rubber Trade in, N	61,	
D 72, Ja 66, F 70, Ma 63, Ap 75, My 64,		
Je 73, Jl 65, Au 68, S	69	
NETHERLANDS		
Rubber Industry Abroad Fifty Years Ago, The.....	<i>L. Thakar</i> O	67
Trade in.....	N 61, D 72, Ja 65, Ma 62,	
Ap 74, My 63, Au 65		
New Butadiene Synthetic Rubber, A—Ameripol	Jl	47
England, Rubber Trade in, O 110, N 57,		
D 66, Ja 61, F 63, Ma 58, Ap 68		
My 59, Je 67, Au 60, S	61	

## NEW GOODS AND SPECIALTIES

Aircraft Propeller Mechanism Utilizes Neoprene Seal.....	Jl	56
Airplanes, Rafts for.....	Je	62
Balloons, Pinocchio.....	Ap	65
Bathing Cap, New "Strapless Aviator", Ap	N	65
Battery, Glasstex.....	N	56
Bearing, Marine, Akerite.....	Je	62
Belting for Shasta Dam, Twenty Miles of.....	F	59
Transmission, All-Neoprene.....	D	63
Bowling Balls, Perfect-Sphere, of Hard Rubber Composition.....	Ma	53
Breather Bag for Gasoline Storage Plants, Ma	53	
Buoy, Light, Rubber-Floated, Seaplanes Aided by.....	Ma	53
Cartridges, Bearing, Resilient.....	N	52
Cement, Latek Mending.....	My	54
Clutch, Rubber-Tired Industrial.....	Ja	53
Counter Traffic, Simple.....	F	49
Couplings, Radial.....	N	52
Cylinder, Rubber-Coated Steel.....	F	59
Diving Suit, Self-Contained.....	Au	56
Electrodes, Diathermy Pad.....	Ja	53
Eraser, Blackboard, Latex Sponge.....	N	52
Facepiece, Wide-Vision, for Gas Masks, N		
Felts, Latex Vynon, for Shoe Trade, Ap	65	
Fittings, Pipe, SRL.....	Au	56
Fire Extinguisher Utilizes Resistoflex PVA Hose.....	S	55
Floor, Rubber, and Asphalt Base, Shower Receptor with Layer of Rubber.....	Ma	53
Flooring, Linoleum, Laminated, Utilizes		
Rubber, Popular Priced.....	O	104
Gaskets, Swivel, Koroseal, for Fire Hose, Ap	65	
Gloves, Koroseal-Treated Light-Weight Silk.....	S	55
Golf ball, Cordless.....	My	54
Hose, Air, New to Avoid Glass Breaks.....	Ja	53
Butane-Propane.....	Je	62
Curb Pump, Uses Synthetic Rubber Throughout.....	Au	56
Fire, Improved.....	Au	56
Paint and Solvent.....	My	54
Resistoflex PVA, Fire Extinguisher Utilizes.....	S	55
Hosiery, Full-Fashioned, Improved Elastic Yarn for.....	My	54
Inner Tube, Bullet-Proof.....	Jl	60, Au
Resistant for United States Army.....	Je	62
G. & J. Tire and.....	Ja	53
Two Rubber Stocks Used in.....	D	63
Insole, Safety, Rubber-Steel.....	My	54
Isolator, Spring, Controlled for Mounting Machinery.....	My	54
Latex Mending Cement.....	My	54
Latex Vynon Felts for Shoe Trade, Ap	65	
Light Buoy, Rubber-Floated, Seaplanes Aided by.....	Ma	53

## PAGES

NEW GOODS AND SPECIALTIES		
Lined by Plioweld Process, Large Pickling Tanks.....	Ap	65
Rubber, Mixer for Abrasive Materials, My	54	
Liners, Removable Rubber, for Tanks and Barrels.....	Au	56
Linoleum Flooring, Laminated, Utilizes Layer of Rubber.....	Jl	56
Mask for Sea Diving.....	Ap	65
Mixer, Rubber-Lined, for Abrasive Material.....	My	54
Motovoyor, Rubber-Tired.....	S	55
Mudguards, Rubber, for Buses and Trucks, Je	62	
Paint and Primer, Koroseal, New.....	Ja	60
Pipe Fittings, SRL.....	Au	56
Plioweld Process, Large Pickling Tanks Lined by.....	Ap	65
Propeller Mechanism, Aircraft, Utilized.....		
Neoprene Seal.....	Jl	56
Protectors, Page.....	Jl	56
Pump, Rubber Tube Utilized by Novel, D	63	
Rafts for Airplanes.....	Je	62
Respirator with a New Type of Filter, S	55	
Rug, Tu-Tone Rubber, Made by Good-year.....	S	55
Sanding Drum Equipped with Inner Tube, S	55	
Machines Find Need of Rubber.....	Ma	62
Seal, Neoprene, Aircraft Propeller, Mechanism Utilizes.....	Jl	56
Sheeting, Hospital, Sponge-Backed.....	N	52
Shoe, Anti-Slip Yachting.....	Jl	56
Shower Receptor with Rubber Floor and Asphalt Base.....	Ma	53
Soles, Shoe, Work, Made of Neoprene, Ma	53	
Spring Isolator, Controlled for Mounting Machinery.....	My	54
Suits, Wet Weather.....	D	63
Switch, Mercury, Rubber-Covered.....	Jl	56
Tank, Plating, Longest.....	F	59
Tanks, Pickling, Large, Lined by Plioweld Process.....	Ap	65

## PAGES

OBITUARY		
Earle, Wm. P.....	Au	62
Evans, Harry E.....	N	58
Gallagher, Wm. J.....	My	40
Glen, J. Gordon.....	Au	88
Gramm, Charles W.....	My	61
Greene, R. H.....	Au	88
Harshaw, Wm. A.....	Jl	62
Hayden, Robert P.....	Ma	66
Hodgman, S. Theodore.....	Ja	61
Kelly, Timothy J.....	S	63
Kennedy, Wm. A.....	Je	68
Knapp, George S.....	Au	88
Lewis, W. T.....	Au	88
Littlejohn, Robert M.....	S	62
MacKusick, Harry A.....	Je	68
Manthrop, Richard W.....	Ap	71
Martin, John S.....	S	62
Matsner, Augusta O.....	My	60
Means, Wm. A.....	N	58
Miller, Charles E.....	S	63
Moomy, Charles S.....	Jl	61
Moore, Geoffrey S.....	Ap	71
Ober, Harrie L.....	F	64
Partington, James W.....	S	63
Payne, Sheldon F.....	Ja	61
Pope, Edward A.....	Je	67
Porritt, Benjamin D.....	Ap	71
Pratt, Wm. Beach.....	Au	62
Rhoades, Richard W.....	Au	88
Richardson, John H.....	Jl	62
Roberts, Dudley D.....	My	60
Robinson, Thos. L.....	Ap	71
Rockhill, L. C.....	Je	67
Schimera, Francis S.....	Ja	61
Stauffer, John.....	Ap	71
Stroming, Fred W.....	Ma	60
Szamatolski, Martin.....	S	62
Townsend, Arthur F.....	Portrait F	64
Usov, Abraham D.....	My	60
Van Dyck, Henry A.....	N	58
Vennema, Augustus W.....	My	60
Welton, P. E.....	N	58
Williamson, Leonard A.....	My	60
Ohio, Rubber Trade in, O 100, N 56, D 66, Ja 59, F 65, Ma 57, Ap 69, My 58, Je 65, Jl 60, Au 59, S	58	

## OIL, PROCESS

Circo Light—Softener for Neoprene, Au	51	
Suniso 3A—Softener for Neoprene, Au	51	
Well Shooting, Rubber—An Aid in, F. R.		
Cossens Ma	49	
Oldest Goodyear Relic.....	My	46
Operation, Electrical, of Tread Cutting Conveyor System.....	C. W. Drake D	57
OSBERG, E. V.		
History of the Division of Rubber Chemistry of the American Chemical Society.....	O	83
Overinflation in Truck Tires.....	N	48

## P

Pacific Coast, Rubber Trade on, N 55, D 66, Ja 58, Ma 60, Jl 58, S	62	
Packaging of Smoked Sheets for Plantations Shipment, The, Don E. Andrews Ma	33	
Process, Pliofilm.....	Ma	48
with Pliofilm, Device for.....	My	49
Paint, Red Lead, Quick-Drying.....	D	62
Palestine, Rubber Trade in.....	F	67
Particle Size, Effect of, on Processing Properties and Abrasion Resistance of Carbon Black in Tread Stocks, G. L. Roberts F	39	
Parts, Banbury, Welding Service for the Renewal of.....	Ap	59
Patent Models Relating to Rubber, Nineteenth Century, Kimball Hutton Stark O	55	
PATENTS		
Cement-Latex Mixtures: Their Composition and Applications, H. J. Stern My	37	
Chemical.....	O 112, N 64, D 76, Ja 69, F 73, Ma 65, Ap 77, My 76, Je 76, Jl 68, Au 73, S	74
General.....	O 112, N 64, D 76, Ja 69, F 74, Ma 65, Ap 78, My 76, Je 76, Jl 69, Au 73, S	75
Machinery.....	O 112, N 64, D 76, Ja 69, F 73, Ma 65, Ap 77, My 76, Je 76, Jl 68, Au 73, S	74
Process.....	O 112, N 64, D 76, Ja 69, F 73, Ma 65, Ap 77, My 76, Je 76, Jl 68, Au 73, S	74
Synthetic Rubber-like Materials, German, Relating to, Law Voge Ap 48, My 47, Jl 45, Au 43, S	41	
Trade Marks.....	O 114, N 64, D 78, Ja 70, F 74, Ma 66, Ap 78, My 69, Je 78, Jl 70, Au 75, S	76
Patterson, Ian.....	Portrait and Sketch Ja	60
Vulcanization Developments in Tires, O	81	
Perbunan and Its Use.....	C. A. Klebsattel Au 33, S	37
Philippines, Rubber Trade in.....	D	73
Pigment Coloration, Asphalt Minus.....	Ja	42
Fine-Particle Calcium—Kalvan.....	Ma	51
with Reinforcing Properties, Silene.....	Au	49

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept; O=Oct.; N=Nov.; D=Dec.

PAGES	PAGES	PAGES
Pigments in Aqueous Medium, Dispersion of . . . . . F. K. Daniel D 50, Ja 33	Replacement Materials, Ample Rubber and, Appear to Be Available . . . . . O 99	RUBBER
Pirelli, G. B. . . . . <i>Portrait</i> O 71	Report of the Crude Rubber Committee, Division of Rubber Chemistry, A. C. S. . . . . Je 53	TRADE ASSOCIATION OF NEW YORK, INC.
Plantations Shipment, The Packaging of Smoked Sheets for . . . . . Don E. Andrews Ma 33	Researcher, Charles Goodyear, the Persistent . . . . . H. E. Simmons O 48	Election . . . . . D 65
Plasticity of Rubber, The Measurement of the . . . . . William M. Widener N 41, Ap 88	Reserve of Rubber, United States, Agreement to Permit . . . . . Au 42	Exports, Rubber, for Limiting . . . . . Ma 59
Plasticized Resin Sheets . . . . . D 60	Government to Buy Added 180,000 Tons of Rubber in 1941 . . . . . S 49	New York Outside Market . . . . . O 103, N 67, D 79, Ja 71, F 75, Ma 67, Ap 79, My 71, Je 80, Jl 71, Au 77, S 78
PLASTICS	Resin Sheets, Plasticized . . . . . D 60	Annual Table and Chart . . . . . F 76
Industries Technical Institute . . . . . Au 61	Resins, Modified Polystyrene . . . . . Ma 37	under Stretch, Structural Studies of the Vulcanization of . . . . . E. A. Hauser and I. N. Smith N 31
"Vinylite" Series V Resins . . . . . J. R. Price Je 47	Synthetic Rubber and . . . . . Ap 53	Uses of, The . . . . . Carroll Van Court S 44
Plate, Airplane Armor, Made of Rubber and Steel . . . . . Jl 48	"Vinylite" Series V . . . . . J. R. Price Je 47	Vulcanization of . . . . . Harry L. Fisher Ma 38, Ap 56
Pliofilm, Device for Packaging with . . . . . My 49	Resistance, Abrasion, of Carbon Black in Tread Stocks, Effect of Particle Size on Processing Properties and . . . . . G. L. Roberts F 39	Wax Protective Compound—Suprax . . . . . Au 53
Packaging Process . . . . . Ma 48	Retreaded Tires, Marking . . . . . Je 64	Woodworking Machine Design, in . . . . . F 53
Plumb, John Scott. <i>Portrait and Sketch</i> Au 58	Retreading Increases, U. S. . . . . Ma 48	
Poland, Rubber Trade in . . . . . N 61	Review, A, of Their Compositions, Properties, and Uses, Synthetic Rubbers, Lawrence A. Wood Jl 33	
Polybutene of High Molecular Weight, A—Synthetic 190 . . . . . Je 45	RHEE, DANIEL	
Polymers, A Suggested System for Classification of . . . . . H. Mark Jl 49	Testing Elastic Thread by the Incline-Plane Machine . . . . . Ap 46	
Polystyrene Resins, Modified . . . . . Ma 37	Rhode Island Rubber Club . . . . . O 110, Ap 63, Jl 61	
Portugal, Rubber Trade in . . . . . Jl 63	Rims Approved by The Tire & Rim Association, Inc. . . . . N 76, Ma 80, My 80, S 92	
Potential Crude Rubber Exports under the I. R. R. Agreement—1939 to 1943 . . . . . Ja 44	ROBERTS, G. L.	
Powder, "Thiokol," Sprayed Protects Metal . . . . . D 60	Effect of Particle Size on Processing Properties and Abrasion Resistance of Carbon Black in Tread Stocks . . . . . F 39	
Precipitated Calcium Silicate . . . . . Jl 71, Au 49	Royale Extruders, Builders of, Celebrate Eighty-fifth Birthday . . . . . Ap 54	
Present Status of Neoprene, The . . . . . Jl 51	John, Sr. . . . . Ap 54	
Press, Hydraulic, Pressure Analysis Chart for a . . . . . P. B. Hunt S 48	RUBBER	
Pressing and Forming of Metals, Rubber for Paul Grodzinski Ma 47	Airplane Armor Plate Made of, and Steel . . . . . Jl 48	
Pressure Analysis Chart for a Hydraulic Press . . . . . P. B. Hunt S 48	Available, Ample, and Replacement Materials Appear to Be . . . . . O 99	
Preventing Fires in Rubber Processes . . . . . G. M. Burke My 41	Bale, and Uncured Fraction, Wet Cutting of . . . . . F 53	
PRICE, J. R.	Bonding to a Ferrous Metal . . . . . My 36	
"Vinylite" Series V Resins . . . . . Je 47	Chemicals, Production and Sales of, for 1939 . . . . . Jl 48	
Prices, Mechanicals, Up . . . . . N 53	Composite Elasticity of . . . . . H. Mark Je 41, Au 45	
Tire List, Reduced . . . . . D 66	Crepe Sole, Imports Dutiable . . . . . My 46	
Up . . . . . My 59	Drum Protectors for A. R. P. . . . . My 45	
Procedures, Tentative, for Testing the Variability of Normal and Concentrated Latex . . . . . Ja 47, F 51	Fair, at the 1940 . . . . . S 40	
PROCESS	Finish, Flexible, for . . . . . D 60	
Casting, Metal, Utilizes Rubber Molds . . . . . Ma 49	Flexing Tests, The Standardization of . . . . . W. L. Stevens Au 36	
"Ekko," for Making Molds . . . . . O 98	Forming and Pressing of Metals, for Paul Grodzinski Ma 47	
Packaging, Pliofilm . . . . . Ma 48	Gas Masks, Army, for . . . . . M. E. Barker My 33	
Patents . . . . . O 112, N 64, D 76, Ja 67, F 73, Ma 65, Ap 77, My 67, Je 76, Jl 68, Au 73, S 74	Goods Markets, Germany's Effect of War on . . . . . L. Thakar My 44	
Processes, Rubber, Preventing Fires in . . . . . G. M. Burke My 41	Hydrochloride Stretched under Heat—Tensolite . . . . . H. D. Minisch Ap 51	
Processing Machinery, The Development of Basic Rubber . . . . . S. C. Stillwagon O 50	INDUSTRY	
Properties and Abrasion Resistance of Carbon Black in Tread Stocks, Effect of Particle Size on . . . . . G. L. Roberts F 39	Abroad Fifty Years Ago, The . . . . . L. Thakar O 67	
Production and Sales of Rubber Chemicals for 1939 . . . . . Jl 48	Accident Rates, 1939, in the . . . . . S 44	
Progress in Standardization by the Crude Rubber Committee . . . . . F 45	Fluorescent Lighting for the . . . . . O. P. Cleaver S 33	
Properties and Uses, Synthetic Rubbers: A Review of Their Compositions . . . . . Lawrence A. Wood Jl 33	Koroseal, a Raw Material for the . . . . . S. L. Brous D 53	
Processing, and Abrasion Resistance of Carbon Black in Tread Stocks, Effect of Particle Size on . . . . . G. L. Roberts F 39	Solvents in the . . . . . Ralph K. Strong and Kenneth Tator D 47, Ja 45	
Protective Compound, Rubber-Wax—Suprax Au 53	Lubricant—Ruglyde . . . . . D 60	
Protectives for Molds against Rust—Rust-Ban . . . . . D 60	Lung, Sealed . . . . . N 40	
Protectors, Drum, Rubber for A. R. P. . . . . My 45	Machinery, Processing, The Development of Basic . . . . . S. C. Stillwagon O 50	
Protects Metal, Sprayed "Thiokol" Powder . . . . . D 60	MANUFACTURERS ASSOCIATION, INC.	
Publications, New . . . . . O 101, N 63, D 74, Ja 67, F 71, Ma 64, Ap 76, My 65, Je 74, Jl 66, Au 69, S 70	News . . . . . D 66, 68	
Q	Questionnaire . . . . . O 118, Ja 82, My 84, Jl 82	
R	Questionnaire, O 118, Ja 82, My 84, Jl 82	
R-60-T—Coating for Conveyer Belting . . . . . My 59	Patent Models, Nineteenth Century, Relating to . . . . . Kimball Hutton Stark O 55	
Rate of Cure and Extrusion, Evaluation of Carbon Black by . . . . . C. R. Johnson N 39	Patents . . . . . O 112, N 64, D 76, Ja 69, F 74, Ma 65, Ap 78, My 76, Je 76, Jl 69, Au 73, S 75	
Rates, 1939 Accident, in the Rubber Industry . . . . . S 44		
Rayon for Tires . . . . . L. A. Yerkes, Jr. D 41	Plasticity of, The Measurement of the . . . . . William M. Widener N 41, Ap 88	
Raw Material for the Rubber Industry, A. Koroseal . . . . . S. L. Brous D 53	Processes, Preventing Fires in . . . . . G. M. Burke My 41	
RECLAIMED RUBBER	Products, South American Imports of . . . . . Ja 42	
Ample Rubber and Replacement Materials Appear to Be Available . . . . . O 99	Promotes Efficiency on California Farms . . . . . F 54	
Market . . . . . O 104, N 68, D 86, Ja 72, F 84, Ma 68, Ap 86, My 78, Je 80, Jl 72, Au 78, S 88	Reclaimers Association, Inc., Election . . . . . F 62	
REINFORCERS	Reserve of, United States, Agreement to Permit . . . . . Au 42	
Precipitated Calcium Silicate . . . . . Jl 71	Government to Buy Added 180,000 Tons of Rubber in 1941 . . . . . S 49	
Silene—A Pigment with Reinforcing Properties . . . . . Au 49	Soling, and Cork . . . . . Au 49	
Relic, Goodyear, Oldest . . . . . Ma 46	Street Cars, More, Use More . . . . . S 49	
Renewal of Banbury Parts, Welding Service for the . . . . . Ap 59	SUBSTITUTE	
Amberex Type B Factice . . . . . Au 35	Amberex Type B Factice . . . . . Au 35	
Synthetic Resins and . . . . . My 53	Synthetic Resins and . . . . . My 53	
Tomato Skins, from . . . . . My 36	Tomato Skins, from . . . . . My 36	
STARKE, KIMBALL HUTTON		
Nineteenth Century Patent Models Relating to Rubber . . . . . O 55		
State of Vulcanization, A Critical Analysis of the T-50 Test for . . . . . George R. Vila N 34		

Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept; O=Oct.; N=Nov.; D=Dec.

PAGES	PAGES
<b>STATISTICS</b>	
Canada.....N 78, Ma 82, My 82, Je 92, JI 80, Au 90	
Exports, Potential Crude Rubber, under the I. R. R. Agreement—1939 to 1943.....Ja 44	
Malaya, British, Exports.....Ma 80	
and Imports.....Ap 80, My 72	
Imports.....D 88, Ja 72, F 72	
South American Imports of Rubber Products.....Ja 42	
<b>TIRE</b>	
Inventory Production—Domestic Shipments.....O 116, N 74, D 88, Ja 78, F 82, Ma 78, Ap 80, My 80, Je 80, JI 72, Au 84	
Stocks, Distributors', in the United States, October 1, 1939.....D 46	
January 1, 1940.....Ma 45	
April 1, 1940.....Je 46	
July 1, 1940.....S 47	
Tractor, Increasing Use of.....Ma 82	
<b>UNITED STATES</b>	
and World, of Rubber Imports, Exports, Consumption, and Stocks.....O 104, N 68, D 80, Ja 72, F 86, Ma 68, Ap 80, My 72, Je 86, JI 72, Au 78, S 82	
Consumption of Synthetic Rubber, 1938.....Ma 82	
Footwear, Rubber and Canvas, Inventory—Production—Shipments.....N 67, D 86, Ja 63, F 72, Ap 79, My 84, Je 86, JI 78, Au 84	
<b>IMPORTS</b>	
Crude and Waste Rubber.....O 116, N 74, D 88, Ja 68, F 86, Ap 80, My 61, Je 88, JI 78, Au 94, S 78	
Rubber by Customs Districts.....O 118, N 78, D 90, Ja 82, F 88, Ma 82, Ap 90, My 82, Je 90, JI 90, Au 90, S 90	
Latex.....O 104, N 74, D 88, Ja 72, F 86, Ma 72, Ap 79, My 80, Je 84, JI 72, Au 94, S 84	
Income of the, Rubber Manufacturing Industry for 1937.....Ja 62	
Production and Sales of Rubber Chemicals for 1939.....Jl 48	
Questionnaire.....O 118, Ja 82, My 84, JI 82	
Reclaimed Rubber.....O 104, N 68, D 86, Ja 72, F 84, Ma 68, Ap 86, My 78, Je 80, JI 72, Au 78, S 88	
Rims Approved by The Tire & Rim Association, Inc.....N 76, Ma 80, My 80, S 92	
Rubber Statistics.....O 118, N 68, D 90, Ja 82, F 88, Ap 80, My 82, Je 90, JI 82, Au 92, S 94	
Supplies, Crude Rubber.....F 49	
Trade in Rubber Products, 1938-1939.....Ma 82	
<b>WORLD</b>	
and United States, of Rubber Imports, Exports, Consumption, and Stocks.....O 104, N 68, D 80, Ja 72, F 86, Ma 68, Ap 80, My 72, Je 86, JI 72, Au 78, S 84	
Imports, Net, of Crude Rubber.....O 114, N 66, D 80, Ja 80, F 88, Ma 80, Ap 80, My 80, Je 88, JI 67, Au 94, S 88	
Shipments of Crude Rubber from Producing Countries.....O 114, N 66, D 80, Ja 80, F 84, Ma 68, Ap 88, My 72, JI 92, Au 88, S 88	
Status of Neoprene, The Present.....Jl 51	
Steel, Airplane Armor Plate Made of Rubber and.....Jl 48	
<b>STERN, H. J.</b>	
Cement-Latex Mixtures: Their Composition and Applications.....My 37	
<b>STEVENS, W. L.</b>	
Standardization of Rubber Flexing Tests, The.....Au 36	
<b>STILLWAGON, S. C.</b>	
Development of Basic Rubber Processing Machinery, The.....O 50	
Stocks, Tire, Distributors', in the United States, October 1, 1939.....D 46	
January 1, 1940.....Ma 45	
April 1, 1940.....Je 46	
July 1, 1940.....S 45	
<b>TREAD</b> , Effect of Particle Size on Processing Properties and Abrasion Resistance of Carbon Black in.....G. L. Roberts, F 39	
Storing Crude Rubber, Care in.....Ja 37	
Street Cars, More, Use More Rubber.....Ja 49	
Stretch, Structural Studies of the Vulcanization of Rubber under.....E. A. Hauser and I. N. Smith N 31	
Stretched under Heat, Rubber Hydrochloride—Tensolite.....H. D. Minich, Ap 51	
Stricklen, J. R.....Portrait N 53	
<b>STRONG, RALPH K., AND KENNETH TATOR</b>	
Solvents in the Rubber Industry.....D 47, Ja 45	
Structural Studies of the Vulcanization of Rubber under Stretch.....E. A. Hauser and I. N. Smith N 31	
Studies, Structural, of the Vulcanization of Rubber under Stretch.....E. A. Hauser and I. N. Smith N 31	
Subway Seat, New, Developed by Firestone. S 47	
<b>SUGGESTED SYSTEM FOR CLASSIFICATION OF POLYMERS</b>	
Suniso 3A Process Oil—Softener for Neoprene.....H. Mark Jl 49	
Supertex—Latex Floor Coverings.....Au 51	
Supplies, United States Crude Rubber.....F 49	
Suprax—Rubber-Wax Protective Compound.....Au 53	
Surface Protective, A—Black-Out.....Au 53	
Sweden, Rubber Trade in.....N 61, Au 65	
Synglas—Corrosion-Resistant Finish.....S 64	
<b>SYNTHETIC MATERIALS</b>	
Ample Rubber and Replacement Materials Appear to Be Available.....O 99	
190—A Polybutene of High Molecular Weight.....Je 45	
Resins, Rubber and.....Ap 53	
<b>RUBBER</b>	
Ameripol—A New Butadiene.....Jl 47	
"Butyl" Rubber—A New Standard Oil Synthetic.....Jl 44	
Classification of Polymers, A Suggested System for.....H. Mark Jl 49	
Koroseal, a Raw Material for the Rubber Industry.....S. L. Brous D 53	
Materials Represented as.....Ja 43	
Neoprene Latex, Characteristics and Utility of.....Benton Dales Ap 43	
Present Status of, The.....Jl 51	
<b>SOFTEENERS FOR CIRCO LIGHT PROCESS OIL</b>	
Suniso 3A Process Oil.....Au 51	
Type GN.....Je 63	
Patents, German, Relating to Synthetic Rubber-like Materials.....Law Voge Ap 48, My 47, Jl 45, Au 43, S 41	
Perbunan and Its Use.....C. A. Klebsattel Au 33, S 37	
"Thiokol" Powder, Sprayed, Protects Metal.....D 60	
"Vinylite" Series V Resins.....J. R. Price Je 47	
Rubbers: Their Compositions, Properties, and Uses.....Lawrence A. Wood Jl 33	
System, Conveyor, Tread-Cutting, Electrical Operation of.....C. W. Drake D 57	
Suggested, for Classification of Polymers A. H. Mark Jl 49	
<b>T</b>	
T-50 Test as a Control for Inner Tubes William B. Dunlap, Jr., N 47	
for State of Vulcanization, A Critical Analysis of the.....George R. Vila N 34	
Tackifiers for Latex Adhesives—Vistac.....Ap 88	
TATOR, KENNETH, RALPH K. STRONG AND Solvents in the Rubber Industry.....D 47, Ja 45	
Tax on Tires and Tubes Raised.....Au 57, JI 61	
Tensolite—Rubber Hydrochloride Stretched under Heat.....H. D. Minich, Ap 51	
Tentative Procedures for Testing the Variability of Normal and Concentrated Latex.....Ja 47, F 51	
Test, Low-Temperature Set.....Ma 44	
T-50, A Critical Analysis of the, for State of Vulcanization.....George R. Vila N 34	
as a Control for Inner Tubes, William B. Dunlap, Jr., N 47	
Testing Elastic Thread by the Incline-Plane Machine.....Daniel Rhee Ap 46	
Variability of Normal and Concentrated Latex, Tentative Procedures for the, Ja 47, F 51	
Tests, Rubber Flexing, The Standardization of.....W. L. Stevens Au 36	
Thailand, Rubber Trade in.....My 63, Je 88, Au 78	
<b>THAKAR, L.</b>	
Effect of the War on Germany's Rubber Goods Markets.....My 44	
Rubber Industry Abroad Fifty Years Ago, The.....O 67	
"Thiokol" Powder, Sprayed, Protects Metal.....D 60	
"Thiurad"—New Monsanto Accelerator.....F 75	
Thomas, Edwin J.....Portrait S 59	
John W.....Portrait Ja 59, S 58	
Richard J.....Portrait and Sketch Je 67	
Ross W.....Portrait S 60	
Thread, Elastic, Testing by the Incline-Plane Machine.....Daniel Rhee Ap 46	
<b>TIRES</b>	
Prices, List Reduced.....D 66	
Up.....My 59	
Rayon for.....L. A. Yerkes, Jr. D 41	
Retreaded, Marking.....Je 64	
Sizes Consolidated, Farm Equipment.....S 46	
Tax on, and Tubes Raised.....Au 57, JI 61	
Tractor, Wide Base.....R. P. Gaylord My 46	
Truck, Overinflation in.....N 48	
Vulcanization Developments in.....Ian Patterson O 81	
Warranty, New.....D 52	
Tomato Skins, Rubber from.....My 36	
Tractor Tires, Wide Base.....R. P. Gaylord My 46	
Trade Information, Foreign.....O 116, N 76, D 90, Ja 80, F 88, Ma 78, Ap 90, My 84, Je 90, JI 82, S 77	
Inquiries, Rubber.....O 110, N 66, D 79, Ja 80, F 75, Ma 67, Ap 90, My 84, Je 90, Au 84, S 90	
<b>TRADE LISTS AVAILABLE</b>	
Trade Lists Available.....Ma 74, Ap 90, My 84, Je 79	
Marks.....O 114, N 66, D 78, Ja 70, F 74, Ma 66, Ap 90, My 69, Je 78, JI 70, Au 75, S 76	
Trainer, J. Edward.....Portrait Au	
Tread-Cutting Conveyer System, Electrical Operation of.....C. W. Drake D 57	
Stocks, Effect of Particle Size on Processing Properties and Abrasion Resistance of Carbon Black in.....G. L. Roberts F 39	
Ty-Ply, an Adhesive.....N 53	
<b>U</b>	
U. S. S. R.	
Rubber Industry Abroad Fifty Years Ago, The.....L. Thakar O 67	
Trade in.....F 69, Ap 73, My 63, JI 64	
Uganda, Rubber Trade in.....S 78	
Uncured Friction, Wet Cutting of Bale Rubber and.....F 53	
United States Crude Rubber Supplies.....F 49	
Reserve of Rubber, Agreement to Permit to Government to Buy Added 180,000 Tons of Rubber in 1941.....S 49	
Retreading Increases.....Ma 48	
Rubber Trade in.....O 98, N 53, D 64, Ja 54, F 60, Ma 54, Ap 66, My 55, Je 63, JI 57, Au 57, S 56	
Use, Perbunan and Its.....C. A. Klebsattel Au 33, S 37	
Uses of Rubber, The.....Carroll Van Court S 44	
Synthetic Rubbers: A Review of Their Compositions, Properties, and.....Lawrence A. Wood Jl 33	
Utility, Characteristics and, of Neoprene Latexes.....Benton Dales Ap 43	
<b>V</b>	
<b>VAN COURT, CARROLL</b>	
Uses of Rubber, The.....S 44	
Variability of Normal and Concentrated Latex, Tentative Procedures for Testing the.....Ja 47, F 51	
Venezuela, Rubber Trade in.....Ap 66	
Vibration Dampener Bushing for Hand Grinders.....Paul L. Kuznick Ap 55	
Viewpoint of an Employer toward Industrial Hygiene, The.....Andrew Fletcher F 43	
<b>VILA, GEORGE R.</b>	
Critical Analysis of the T-50 Test for State of Vulcanization, A.....N 34	
"Vinylite" Series V Resins.....J. R. Price Je 47	
Vistac—Tackifiers for Latex Adhesives.....Ap 58	
<b>VOGE, LAW</b>	
German Patents Relating to Synthetic Rubber-like Materials.....Ap 48, My 47, JI 45, Au 43, S 41	
<b>VULCANIZATION</b>	
Centenary of, Rubber Chemists Celebrate, at Fall Meeting.....O 89	
Century after Goodyear's Discovery, A.....A. R. Kemp O 63	
Developments in Tires.....Jan Patterson O 81	
of Rubber.....Harry L. Fisher Ma 38, Ap 56	
under Stretch, Structural Studies of the.....E. A. Hauser and I. N. Smith N 31	
State of, A Critical Analysis of the T-50 Test for.....George R. Vila N 34	
<b>W</b>	
War, Effect of the, on Germany's Rubber Goods Markets.....L. Thakar My 44	
Warranty, Tire, New.....D 52	
Wax, Rubber Protective Compound—Suprax.....Au 53	
Welding Service for the Renewal of Bangle Parts.....Ap 59	
Wet Cutting of Bale Rubber and Uncured Friction.....F 53	
Wide Base Tractor Tires.....R. P. Gaylord My 46	
WIDENOR, WILLIAM M.	
Measurement of the Plasticity of Rubber, The.....N 41, Ap 88	
Wilson, R. S.	
Portrait Ja 59	
Windows, Glass, Latex Protects.....N 46	
Wolfe, W. S.	
Portrait D 67	
WOOD, LAWRENCE A.	
Synthetic Rubbers: A Review of Their Compositions, Properties, and Uses.....Jl 33	
Woodworking Machine Design, Rubber in.....F 53	
<b>Y</b>	
YERKES, L. A., JR.	
Rayon for Tires.....D 41	
<b>Z</b>	
Zinc Sulphide Developed, New—Cryptone ZS-800.....Je 45	

**Ja=Jan.; F=Feb.; Ma=March; Ap=April; My=May; Je=June; JI=July; Au=August; S=Sept; O=Oct; N=Nov.; D=Dec.**

## INDEX TO ADVERTISERS

*This index is maintained for the convenience of our readers. It is not a part of the advertisers' contract, and INDIA RUBBER WORLD assumes no responsibility to advertisers for its correctness.*

Pages	Pages	Pages	Pages
<b>A</b>	<b>D</b>	<b>K</b>	<b>M</b>
Adamson Machine Co., The. 97	Continental Rubber Co. of N. Y. .... 93	Kautschuk .....	Magnetic Gauge Co., The.... 86
Akron Equipment Co., The.. 95	Curran & Barry..... 83		Magnetic Pigment Co..... 15
Akron Standard Mold Co., The ..... 71			McNeil Machine & Engi- neering Co. ....
Albert, L., & Son..... 93	Davol Rubber Co..... —		Monsanto Chemical Co..... —
American Cyanamid & Chemical Corp. ..... 22	Day, J. H., Co., The..... 76		Moore & Munger..... —
American Zinc Sales Co.... 8	Dispersions Process, Inc.... —		Muehlstein, H., & Co., Inc. 31
Arkwright Finishing Co.... 70	Dunning & Boschert Press Co., Inc. .... 93		
	du Pont, E. I., de Nemours & Co., Inc.		
	Inside Front Cover		
<b>B</b>	<b>E</b>	<b>N</b>	<b>T</b>
Badenhop, Robert, Corp..... 91	Erie Foundry Co..... 83	National-Erie Corp. .... 14	Taylor Instrument Cos. .... —
Baldwin Southwark Division The Baldwin Locomotive Works ..... 16		National Rubber Machinery Co. ....	Thropp, William R., & Sons Co. .... 26
Barber Asphalt Corp..... 97	Farrel-Birmingham Co., Inc. 24	National Sherardizing & Machine Co., The ..... 93	Titanium Pigment Corp. .... 27
Barco Mfg. Co..... 72	Flexo Supply Co..... 95	Naugatuck Chemical Division of United States Rubber Co. ....	Turner Halsey Co. .... 23
Barr Rubber Products Co., The ..... 93	French Oil Mill Machinery Co., The ..... —	Neville Co., The. ....	
Barrett Co., The..... 31		New England Butt Co. .... —	
Barry, Lawrence N..... 93		New Jersey Zinc Co., The. 12	
Bead Chain Mfg. Co., The... 73			
Binney & Smith Co., Insert 79, 80			
Black Rock Mfg. Co., The.. 95	<b>G</b>		
Bonwitt, Eric ..... 93	Gammeter, W. F., Co., The. 92		
Bristol Co., The. .... —	General Atlas Carbon Co.... —		
Brockton Tool Co. .... —	General Dyestuff Corp. .... 76		
Brooklyn Color Works, Inc. 92	General Tire & Rubber Co., The ..... 96		
	Givaudan-Delawanna, Inc. .. 68		
	Gummi-Zeitung ..... —		
<b>C</b>	<b>H</b>	<b>P</b>	<b>V</b>
Cabot, Godfrey L., Inc., Front Cover	Hercules Powder Co., Inc.... 17	Pequanoc Rubber Co..... 6	Vanderbilt, R. T., Co., Inc... 34
Cambridge Instrument Co., Inc. .... 74	Heveatex Corp. .... 24	Philadelphia Rubber Works Co., The ..... 9	Vultex Corp. of America.... 30
Cameron Machine Co..... 90	Home Rubber Co. .... 97		
Canfield, H. O., Co., The... 95	Huber, J. M., Inc. .... 32		
Carter Bell Mfg. Co., The.. 76			
Chemical & Pigment Co., The ..... 72			
Chiksan Tool Co..... 75	<b>I</b>		
Claremont Waste Mfg. Co... 95	Imperial Oil & Gas Products Co. ....		
Cleveland Liner & Mfg. Co., The ..... Back Cover	Inside Back Cover		
Colonial Insulator Co., The. 86	India-Rubber Journal ..... —		
Columbia Alkali Corp., The. 25	Institution of the Rubber Industry ..... —		
Columbian Carbon Co., Insert 79, 80	International Pulp Co..... 91		
Continental Carbon Co., Insert 20, 21	Interstate Welding Service.. 4		
	<b>J</b>		
	Jacoby, Ernest, & Co..... 94		
<b>K</b>			
		<b>R</b>	<b>W</b>
		Rand Rubber Co. .... 91	Wade, Levi C., Co..... 96
		Rare Metal Products Co.... 70	Wallace, M. E., Co..... 93
		Revertex Corporation of America ..... 86	Wanted and For Sale.... 91, 93
		Revue Générale du Caout- chouc ..... —	Wellington Sears Co. .... 85
		Rex-Hide, Inc. .... 28	Wellman Co. .... 86
		Robertson, John, Co., Inc... 71	Western Shade Cloth Co., The 67
		Royle, John, & Sons..... 7	White, L. J., Co. .... 73
	<b>S</b>		Whittaker, Clark & Daniels, Inc. .... 94
		St. Joseph Lead Co..... 18	Williams, C. K., & Co..... 94
		Schulman, A., Inc..... 19	Wilson, Charles T., Co., Inc. 97
		Scott, Henry L., Co..... 96	Wishnick-Tumpeer, Inc. .... 3
		Seely Instrument Co., Inc... 92	Wood, R. D., Co. .... 28
		Seville Porcelain Co..... 96	
		Shaw, Francis, & Co., Ltd... 30	
	<b>Y</b>		
			Yarnall-Waring Co. .... 90

